| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s)    |            |
|-----------------|-----------------|------------|
| 09/520,405      | MARTINEK ET AL. |            |
| Examiner        | Art Unit        | - <u> </u> |
| Steven Ashburn  | 3714            |            |

| √  | Rejected |
|----|----------|
| 11 | Allowed  |

| ı | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Claim  |          |          |               |                 |          |         |           |          |                 |   |              |       |          |          |          |                |                 |          |          |                 |     |       | ,        |               |         |                 |  |                        |          |          |
|--|----------|----------|---------------|-----------------|----------|---------|-----------|----------|-----------------|---|--------------|-------|----------|----------|----------|----------------|-----------------|----------|----------|-----------------|-----|-------|----------|---------------|---------|-----------------|--|------------------------|----------|----------|
| 1     V     51     101     102     102     103     103     103     103     104     103     104     105     105     105     105     105     105     105     105     105     105     105     105     105     106     106     107     107     107     107     107     107     107     107     107     107     107     107     107     108     108     108     108     109     110     111     111     111     111     114     114     114     114     114     114     114     114     114     114     114     114     114     114     114     114   | Cla      | im       |               |                 |          | Dа      | te        |          |                 |   |              | Cla   | im       |          |          | C              | ate             |          |          |                 |     | Cla   | aim      |               |         |                 | Date   | е                      |          |          |
| Section   Sect | Final    | Original | 8/28/04       |                 |          |         |           |          |                 |   | *            | Final | Original |          |          | -              |                 |          |          |                 |     | Final | Original |               |         |                 |  |                        |          |          |
| 10   |          | 1        | V             |                 |          | 十       | $\top$    |          |                 |   |              |       | 51       |          | $\top$   |                | $\neg \uparrow$ | $\top$   |          |                 | 4   |       | 101      |               | 1       | †               |  |                        |          |          |
| 4     1     104     105       5     5     105     106     107       8     56     108     107     100     107     100     107     100     107     100     1   |          | 2        | T             |                 |          | 1       |           | 1        |                 |   |              |       |          |          |          |                |                 | 十        |          |                 | . 1 |       |          |               | 1       |                 |  |                        |          | $\top$   |
| 5  |          | 3        |               |                 |          |         |           |          |                 |   | ].           |       | 53       |          |          |                |                 |          |          |                 |     |       | 103      |               |         |                 |  | П                      | T        |          |
| 6  |          |          |               |                 |          |         |           |          |                 |   |              |       |          |          |          |                |                 |          |          |                 | - 5 |       |          |               |         |                 |  |                        |          |          |
| 107  |          |          | Ш             | Ц               |          |         |           |          | Ш               |   | 1            |       |          |          |          |                |                 |          |          | $oxed{oxed}$    | -34 |       |          |               |         |                 |  |                        |          |          |
| S  |          |          | Ш             |                 |          | $\perp$ | $\perp$   |          | Ш               |   |              |       |          |          |          | Ш              | $\perp$         |          |          |                 |     |       |          |               |         |                 |  | ,                      |          |          |
| 9  |          |          | Ш             |                 | _        | ┸       | _         | ļ        |                 |   |              |       |          | $\sqcup$ |          | $\sqcup$       | _               | $\perp$  | <u> </u> |                 | ,   |       |          |               | $\bot$  | $oxed{igspace}$ | <u> </u>   | Ш                      |          | $\dashv$ |
| 10   0   0   11   11   11   12   12  |          |          | 1             |                 |          | - -     | +         |          | Ш               |   | . Da         |       |          | -        |          | $\vdash$       | _               | +        | <b>-</b> | Щ               |     |       |          | $\dashv$      | - -     | ــــــ          |  | Ш                      | _        | +        |
| 11   | -        |          | <del>''</del> | _               | -        |         | -         | +        |                 |   | 149          |       |          |          |          | 1              | _               | +        |          | Н               |     |       |          | _             |         | -               |  | Ш                      | _        | +        |
| 12   | -        |          | _             | $\dashv$        |          | +       |           | +-       | Н               |   | e<br>- '     |       |          | -        |          | ╁─┼            | -               | -        | +        |                 | -   |       |          |               |         | -               |  | $\vdash$               | _        | +        |
| 13   |          |          |               | $\dashv$        | +        | +       | +         | +        | Н               | _ | * 7<br>= 7 ± |       |          | +        | $\dashv$ | +              | +               | +        | ╫        |                 |     |       |          | +             | +       | ╁               |  | $\vdash$               | $\dashv$ | -        |
| 14   |          |          | -             | $\dashv$        | +        | +       | +         | +        | $\vdash$        |   |              |       |          |          | +        | +- +           | +               | +        | +-       |                 |     |       |          | +             | +       | ╁               |  | $\vdash$               |          | +        |
| 15   |          |          | Ť             |                 | +        | +       | +         | +        | $\vdash$        |   |              |       |          |          | +-       | ++             | +               | +        | +        | Н               |     |       |          | +             | +       | +               |  | $\vdash \vdash$        | $\dashv$ | +        |
| 16   |          |          |               | $\vdash$        | +        | $\top$  | $\top$    | T        | $\vdash$        |   | - 1          |       |          | $\vdash$ | +        | + +            | +               | +        | +-       | $\vdash$        |     |       |          |               | +       | +               | $\vdash$   | $\vdash \vdash \vdash$ | $\dashv$ | +        |
| 17   18  |          |          |               |                 | $\top$   | $\top$  | +-        | 1        |                 |   | -            |       |          |          | 1        |                |                 | +        | $\dashv$ | М               |     |       |          |               | ┪┈      | ╁               | ┢  |                        | $\dashv$ | +        |
| 18   |          | l        |               |                 |          |         | $\dagger$ | $\top$   | П               |   |              |       |          |          |          | 1 1            |                 | $\top$   | $\top$   |                 |     |       |          |               | +       | 1               | T  | П                      |          | $\top$   |
| 120  |          | 18       |               |                 | 1        |         |           |          |                 |   | 1            |       |          |          |          |                |                 |          | 1        |                 | - 1 |       |          |               |         |                 |  | П                      |          | $\top$   |
| 21     V     121     121     122     122     122     122     123     124     124     124     124     124     124     124     125     125     126     126     126     126     127     127     127     127     127     127     127     127     127     128     128     129     129     130     130     130     130     130     130     130     130     131     131     131     131     131     131     132     132     132     133   |          | 19       |               |                 |          |         |           |          |                 |   |              |       | 69       |          |          |                |                 |          |          |                 | ·   |       |          |               |         |                 | $\Box$   | П                      |          | $\top$   |
| 22     122     122     123     123     123     123     123     123     123     124     124     125     125     125     125     126     125     126     127     127     127     127     127     128     129     129     129     129     130     133     133     133     133     133     133     133     133     133     133     133     133     133     133     136     137     137   |          |          | 1             |                 |          |         |           |          |                 |   |              |       |          |          |          |                |                 |          |          |                 | , i |       | 120      |               |         |                 |  |                        |          |          |
| 23     73     123     124     124     125     125     125     125     125     125     125     125     125     126     126     126     127     127     127     127     127     127     128     129     129     129     130     130     130     130     130     130     130     131     131     131     131     131     131     131     131     133     133     133     133     133     133     133     133     133     134  |          |          | V             | 1.              |          | 107     |           | 1        |                 |   |              |       |          | 101      | 107.7    | 7 1.1          | 111             |          | 9 5      | 11/2            |     |       |          |               |         |                 |  |                        |          |          |
| 24     124     125     125     125     126     125     126     126     126     126     126     127     127     127     127     128     128     129     129     129     129     130     130     130     131     131     131     131     131     131     132     132     132     132     133     133     133     133     133     133     133     134     134     135     135     136     136     136     136     137     137     137     137     137     138     138     138     138     138     139     140     141     141     141     141     142     143     144     144     144     144     144     144     145     145     145     146     146     147     148     148     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149   |          |          |               |                 |          | 4       | $\perp$   | <u> </u> |                 |   | .0           |       |          |          |          | $\sqcup$       |                 | $\perp$  | $\perp$  |                 |     |       |          |               |         |                 |  |                        |          |          |
| 25     75     125     126     126     126     127     127     127     127     127     127     127     128     128     129     129     130     130     130     131     131     131     131     131     132     133     131     132     133     133     133     133     133     133     133     134     134     134     134     134     134     135     135     136     136     137     137     138     138     138     138     139     140     141     141     141     141     142     142     142     143     144     144     145     145     146     147     147     148     146     147     148     148     149  |          |          |               |                 |          | ┵       | $\perp$   | _        |                 |   |              |       |          |          | $\perp$  | Ш              |                 | $\perp$  | $\bot$   |                 |     |       |          |               |         |                 |  |                        | _        |          |
| 26   76   126   127   128   127   128   127   128   128   128   129   129   129   129   130   130   131   131   131   131   131   131   131   132   133  |          |          |               | _               | _        | 4       | -         |          |                 |   | - 1          |       |          | $\perp$  | 4        |                | _               | $\perp$  | $\bot$   |                 |     |       |          |               |         | ↓_              |  |                        | _        | _        |
| 27   127   128   128   128   128   128   129   129   129   129   130   130   130   131   131   131   131   131   131   132   132   132   132   132   133   13  |          |          |               |                 | _        | +       | +         | $\vdash$ |                 |   | 3            |       |          |          | -        |                | _               | +        | 1        | Щ               |     |       |          | (125 H H E    | -       | -               |  |                        |          | _        |
| 28     78     128     129     129     129     129     129     130     130     131     131     131     131     131     131     131     131     132     132     132     132     132     132     133  | -        |          |               | $\dashv$        | +        | +       | +         | ╄        |                 |   |              |       |          | $\dashv$ | +        |                | $\dashv$        | +        | +        |                 | 1 1 |       |          | 1117          | -       |                 |  | 11                     |          |          |
| 29   79   129     30   130   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |          |          |               |                 | +        | +       | ╁         | -        |                 |   |              |       |          |          | +        |                | +               | $\dashv$ | +        | Н               |     |       |          | _             | +       | -               |  |                        | $\dashv$ | +        |
| 30   80   130   131     31   81   131   131     32   83   132   132     33   84   134   134     35   85   135   135     36   86   136   137     38   87   137   137     38   88   138   139     40   90   140   141     41   91   140   141     42   92   142   142     43   94   144   144     44   94   144   144     45   96   146   146     47   97   147   148     48   98   148   149  | -        |          |               | $\dashv$        | +        | ╁       | ╁         | $\vdash$ |                 |   | 1            |       |          | $\dashv$ | ┿        | +              | -               | +        |          | $\vdash$        |     |       |          |               | +       | ╁               | $\vdash$   | $\vdash$               | $\dashv$ | +        |
| 31 32   33 34   35 85   36 134   37 87   38 133   39 88   40 90   41 91   42 92   43 94   44 94   46 96   48 98   49 99   148 98   148 99   148 99   149 149   |          |          |               | $\dashv$        |          | +       | +         |          |                 |   |              |       |          | $\vdash$ | +        | +              | +               | +        | +        | $\vdash$        | 31  |       |          | +             | +       | +               | <del>                                     </del> | $\vdash$               | $\dashv$ | +        |
| 32   82   132   133     33   133   133   134     35   85   135   135     36   86   136   137     38   87   137   137     38   88   138   138     39   90   140   141     41   91   141   141     42   92   142   142     43   93   143   144     44   94   94   144     45   96   145   146     47   97   148   148     49   99   148   149  |          |          |               | $\neg$          |          | 十       | _         |          |                 |   |              |       |          | _        | +        | $\Box$         | +               | +        | +        |                 |     |       |          |               | +       |                 |  |                        | $\dashv$ | +        |
| 33   34   35   34   35   35   36   35   36   37   38   37   38   39   38   39 <td< td=""><td></td><td>32</td><td></td><td></td><td></td><td>İ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td></td><td></td><td><math>\top</math></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>一</td><td></td><td></td><td>7</td><td><math>\top</math></td></td<>  |          | 32       |               |                 |          | İ       |           |          |                 |   |              |       |          |          | +        |                |                 | $\top$   |          |                 |     |       |          |               |         | 一               |  |                        | 7        | $\top$   |
| 34   35   84   134   135     36   86   136   136   137     38   87   137   137   138     39   88   138   139   139   140     40   90   140   141   141   141   141   141   142   142   142   143   143   144   144   144   144   144   144   144   145   146   146   147   147   148   148   148   149   |          |          |               |                 |          |         |           |          |                 |   |              |       |          |          |          |                |                 |          | $\top$   | П               |     |       |          |               |         |                 |  |                        |          | $\top$   |
| 35   85   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |          | 34       |               |                 |          |         |           |          |                 |   | ,H           |       | 84       |          |          |                |                 |          |          |                 |     |       | 134      |               |         |                 |  |                        |          |          |
| 37   88   137   137     38   88   138   139     40   90   140   140     41   91   141   141     42   92   142   142     43   93   143   144     44   94   144   144     45   95   145   146     46   96   146   147     48   99   148   148     49   99   149   149  |          |          |               | $\prod$         |          |         |           |          |                 |   |              |       |          |          |          |                |                 |          |          |                 | 100 |       |          |               |         |                 |  |                        |          |          |
| 38   88   138     39   90   139     40   90   140     91   141     92   142     93   143     94   144     95   145     96   146     97   147     98   148     49   99  |          |          |               |                 |          |         | 1017      |          | 122             |   |              |       |          | 7110     | 100      |                | 1,41            | 11       |          | FTTB            |     | 19-1  |          | 111           |         | Si ii           | 15.00  | 1                      |          | 4.1      |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  |          |          |               |                 | _        | $\bot$  | 1         | -        |                 |   |              |       |          |          | 1        |                | _               | $\bot$   | 4_       |                 |     |       |          | $\perp$       |         |                 |  | Щ                      |          |          |
| 40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149  | <u> </u> |          |               | $\vdash$        |          | - -     | _         |          |                 |   |              |       |          |          | _        |                | _               | $\bot$   | $\perp$  | $\sqcup$        |     |       |          |               | $\perp$ | <u> </u>        | <u> </u>   |                        | _        |          |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  |          |          |               | $\vdash \vdash$ |          | - -     | +         | ┼        | $\vdash \vdash$ |   |              | _     |          |          |          |                | _               | +        | +        | $\vdash$        |     |       |          | $\dashv$      | $\bot$  | <u> </u>        | <u> </u>   | $\sqcup$               | $\dashv$ |          |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99  |          |          | -             | $\dashv$        | _        | +       | +         | $\vdash$ |                 |   | ž            |       |          | $\vdash$ | +        | $\vdash$       | $\perp$         | +        | +-       | $\vdash$        |     |       |          |               | +       | <del> </del>    | $\vdash$   | $\sqcup$               | _        | $\dashv$ |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 149   |          |          |               | $\dashv$        | +        | +       | +         | ┼        |                 |   | . 1          | -     |          | -        |          | 1              |                 | +        | +-       | $\vdash\vdash$  |     |       |          | +             | +       | <del> </del>    |  | $\vdash$               | $\dashv$ |          |
| 44 94   45 95   46 96   47 97   48 98   49 99  | -        |          |               |                 | +        | +       | +         | ╁━       | $\vdash\vdash$  | _ |              |       |          |          | ╬        | ++             | +               | +        | +        | $\vdash$        | 1   |       |          |               | +       | +               | <del>                                     </del> | $\vdash \vdash$        | $\dashv$ | +        |
| 45 95   46 96   47 97   48 98   49 99  | -        |          |               | $\vdash$        | +        | ╁       | +         | +        | $\vdash \vdash$ | _ |              |       |          | -  -     | +        | ++             | -               | +-       | +-       | $\vdash$        |     |       |          | +             | +-      | +               |  |                        | -        | +        |
| 46 96   47 97   48 98   49 148   | -        |          |               | $\dashv$        | -+-      | +       | +         | +        |                 |   |              |       |          | $\vdash$ | +        | ╂╼┼            | $\dashv$        | +        | +-       | $\vdash \vdash$ |     |       |          | $\dashv$      | +       | +-              | $\vdash$   | $\vdash \vdash$        | $\dashv$ | +        |
| 47 97 147   48 98 148   49 99 149  |          |          |               | $\dashv$        | $\dashv$ | 1       | †         | +        |                 |   |              | -     |          | $\dashv$ | +        | <del>   </del> | +               | +        | 1        | ╁┤              |     |       |          | -             | +       | T               |  | H                      | $\dashv$ | $\dashv$ |
| 48 98   49 148   149 149   |          |          |               | $\dashv$        | _        | +       | 1         | <u> </u> |                 |   |              |       |          |          | $\top$   | $\Box$         | $\dashv$        | +        | $\top$   | $\vdash$        | }   |       |          | $\dashv$      | +       | $\vdash$        |  | H                      | $\dashv$ | +        |
| 49 99 149 149  |          |          |               |                 |          |         | 1         | Τ.       | П               |   |              | -     |          |          | 1        | 1-1            | 十               | $\top$   | 1        | П               |     | _     |          | $\dashv$      | $\top$  | 1-              |  | H                      | $\dashv$ | $\dashv$ |
|  |          | 49       |               |                 |          |         |           |          |                 |   |              |       |          |          | 1        |                | _               |          |          |                 |     |       |          | $\neg \vdash$ | $\top$  | 1               |  | $\Box$                 | $\dashv$ | $\neg$   |
| <del></del>  |          | 50       |               |                 |          |         |           |          |                 |   |              |       | 100      |          |          |                | $\Box$          |          |          |                 |     |       | 150      |               |         |                 |  |                        |          |          |